July 23, 2010

Procedure to Powering Down the L1Cal System

0) Inform the Captain and the DAQ shifter that you will power of the L1Cal system and some alarms might be set off.

1) On d0tcc3 or any online node with host to d0tcc3, login as d0cal:
   cd ~/l1cal2b/tablib/run
   ./bin/power_down --verbose --all

   This will turn the power off on the TAB/GAB units only, not the crates. No software command is needed to prepare the ADF crates before the power is turned off. Then,

2) Switch off all the crates (ADF's, Control and TAB/GAB) by pushing down and holding down for couple of seconds the red toggle switch, on the right of the red LED display, shown in the Figure 1 below. The Table 1 shows the locations of these crates in MCH1.

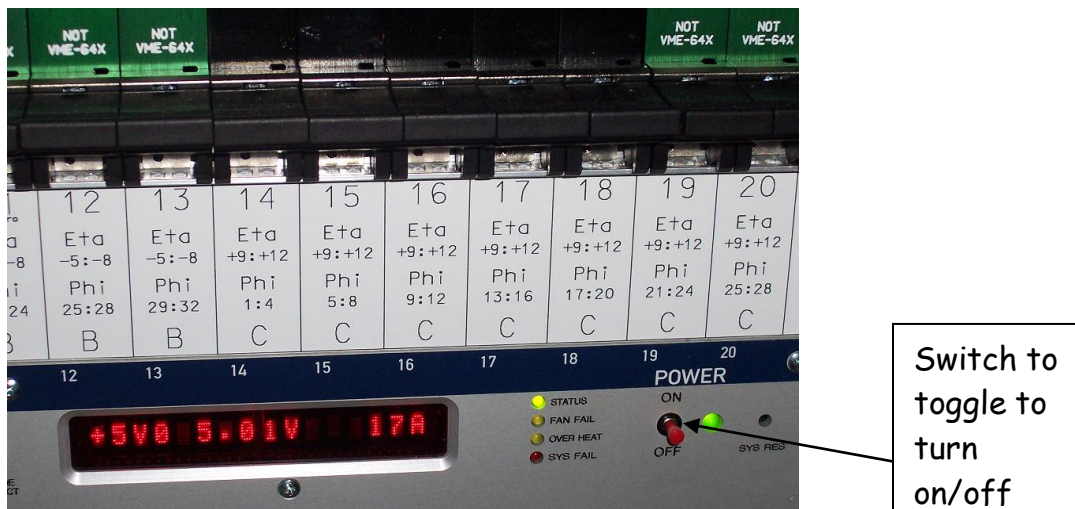
Switch to toggle to turn on/off

Figure 1) Toggle switch on each crate to use to turn on/off the crates.

Crate ID	Rack ID
ADF - A	M104
ADF - B	M106
ADF - C	M109
ADF - D	M111
TAB/GAB	M107
Control	M108

Table 1) MCH1 crates and their locations.

3) On the MCH1 rack M102, there is a monitor used by various systems. Push the "L1Cal Trig" button on the box at the top of the rack (shown in Figure 2 below) to select L1Cal's PC, d0tcc3 (L1Cal Trig TCC). On the monitor, you see the L1Cal_IIb_GUI (shown below in Figure 3), click on the "Main" button, then the "Exit" button to end the GUI. Then close all the other windows you see on the monitor by clicking on the X button at the top right corner on each window.

Figure 2) Box to select to monitor for L1Cal Trig TCC.

4) Shut down the L1Cal Trig TCC from the monitor. The left corner menu is usually hidden and shows up if the cursor is brought there. Then choose the option to shut the PC off. Turn off the PC with the front switch. You need to reach to it from the back of the rack M103 or remove the aluminum panel in front of the rack. It is a black Dell PC.
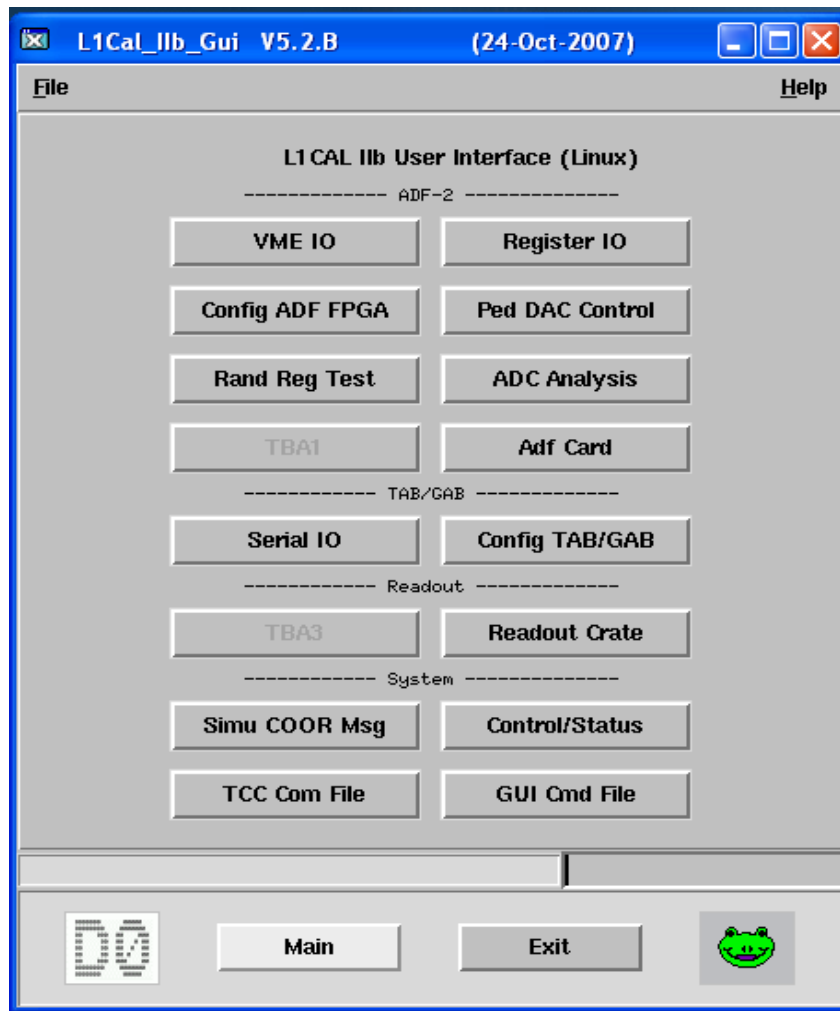
Figure 3) L1Cal_IIb_GUI.

5) If a power outage is expected, then the power to the crates and the alarm systems has to be turned off. The switches are at the top of each rack and are shown in the Figure 4 below. Flip down the Crate, Water and Fan switches first, then the Main Breaker Switch (double switch).

Crate, Water, Fan and Main Breaker Switches to turn on/off power to the crates and the alarm systems.

Figure 4) Switches on each rack to use to turn on/off the power to the racks and the systems on the racks.